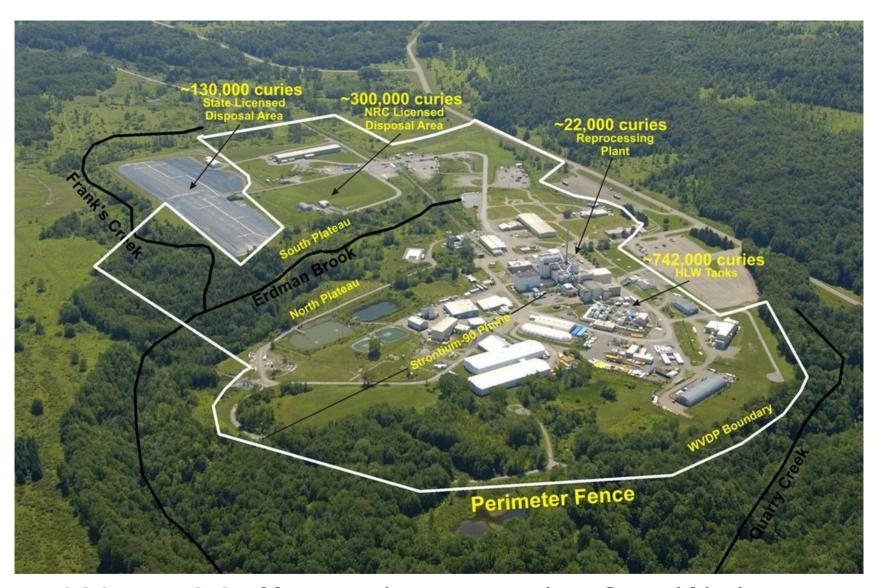
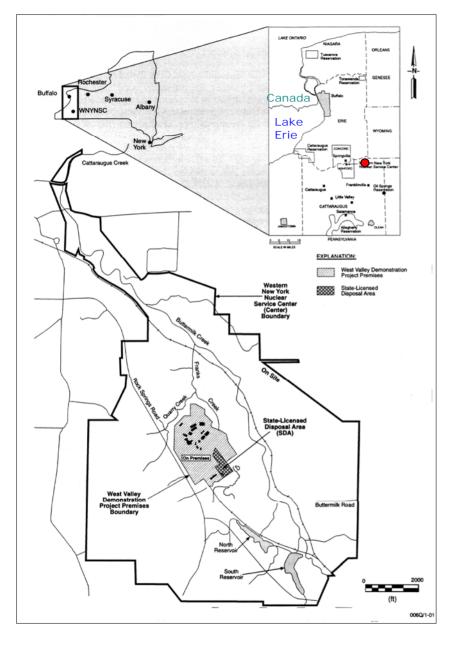
### STATUS OF WEST VALLEY SITE DECOMMISSIONING

NRC briefing, Rockville MD December 11, 2006

Raymond C. Vaughan West Valley Citizen Task Force



West Valley site, main facilities



Site is south of Buffalo in WNY (western NY state)

Surface drainage descends 700 feet in 40 miles to Lake Erie; flows through rural/wild areas, WNY communities, and Seneca Nation of Indians



#### New Index of Environmental Condition for Coastal Watersheds in the Great Lakes Basin



### West Valley site overview

Complex, interrelated site closure responsibilities:

- Former reprocessing plant, two burial grounds, etc.
- U.S. DOE under WV Demonstration Project Act
- NYS Energy Research and Development Authority (NYSERDA)

## Complex, interrelated law/regulation/oversight:

- NRC, EPA, NYS DEC, NYS DOH
- WV Demonstration Project Act (1980)
- Part 50 license in abeyance during Demonstration Project
- LTR, WV Final Policy Statement, RCRA, etc.

### Separate closure endpoints for DOE and NYSERDA

- Decommissioning decisions still being made (EIS process approaching 20 years, still not complete)
- Current impasse between DOE and NYSERDA re: their respective responsibilities, validity of erosion modeling, etc.

#### **EROSION**

- Uncontrolled erosion recognized as main threat to site integrity (Hundreds of years? Thousands of years?)
- Uncontrolled erosion will undercut site and will episodically deposit parcels of waste inventory into steep-gradient streams that flow to Lake Erie

## 1: Should DOE & NYSERDA Decommissioning Plans be concurrent or sequential?

If sequential, as NRC prefers:

- Need uniform requirements for DOE and NYSERDA
- How can/should Part 50 license be reinstated during interim period?

## 2: Evaluation of erosion and radiological impacts

- All evaluations need to be carried to peak dose (>1000 yr, as needed) (WV Final Policy Statement)
- All underlying assumptions, <u>models</u>, and methods of calculation need close attention
- Marginally acceptable impacts??

## 3: Distinction between decommissioning and disposal

- WV Demonstration Project Act sets separate requirements for each
- Distinction may depend partly on the extent of barrier or vault construction (how elaborate, how essential?)

# 4: NRC should not authorize or condone reclassification (e.g.,WIR) if contrary to law

 WV Demonstration Project Act defines waste categories: HLW, LLW, TRU

## 5: Sr-90-contaminated groundwater plume!

- No apparent regulation (license in abeyance); plume keeps growing
  - DOE won't deal effectively with it
  - NYSERDA and NRC say they can't
- Is creating an increasingly large amount of soil that will need decommissioning





South Branch, Cattaraugus Creek